

Microsoft 0365 Integration Guide

SecurAccess Integration Guide

O365 (via ADFS) Integration Guide

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1.1 Solution Summary

SecurEnvoy's SecurAccess MFA solution integrates with Microsoft Office 365 via ADFS (Active Directory Federation Service) for authorisation and access control.

The software used for the integration process is listed below:

ADFS 4.0 (Active Directory Federation Service - Windows 2016)

WAP (Web Application Proxy – Windows 2016)

SecurEnvoy SecurAccess Release v9.3.501

1.2 Guide Usage

The information in this guide describes the configuration required for integration with SecurEnvoy and common to most deployments. It is important to note two things:

- Every organization is different and may require additional or different configuration.
- Some configuration may have other methods to accomplish the same task than those described.

1.3 Prerequisites

The following conditions are required to set up SecurEnvoy's MFA Solution:

- A SecurAccess MFA server installed, configured and working on a system with:
 - Windows Server 2012 or higher.
 - An LDAP or Lightweight Directory Service database of users

Note: Please see SecurEnvoy's SecurAccess version 9.3 deployment guide on how to setup MFA server solution (On the www.securenvoy.com website)
- An ADFS Server running version 3.0 and above, (previous versions of ADFS may work but have not been tested with full functionality)
- A Web Application Proxy (WAP) located in a DMZ and secured by a firewall
- This guide assumes that ADFS has been installed and previously configured to authenticate O365 users with a domain username and password already.
- Familiarity with the following technologies:
 - RADIUS configuration
 - Active Directory Federation Services Interface

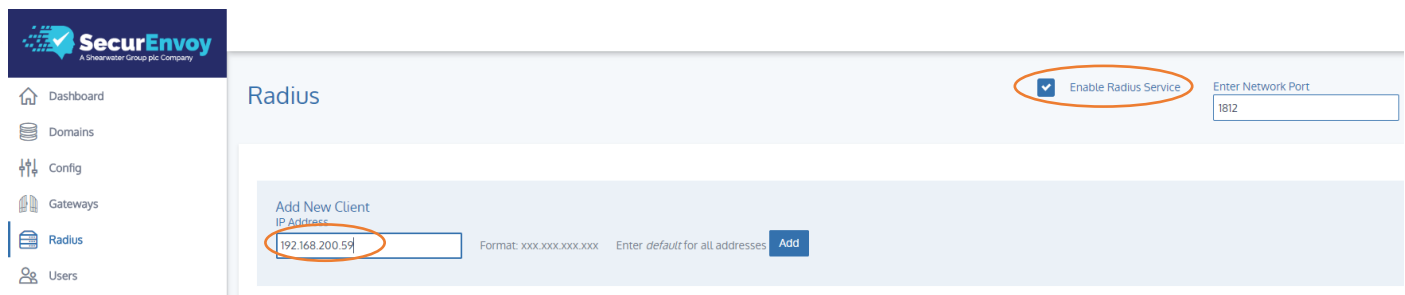
1.4 Authentication

The following section describes the steps required to configure ADFS to authenticate users via RADIUS through the SecurEnvoy SecurAccess Solution.

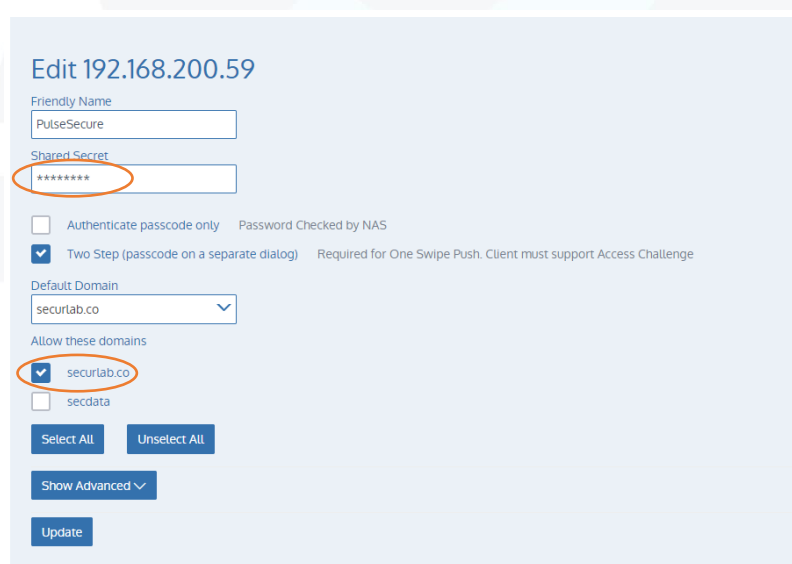
1.41 Setup RADIUS - SecurAccess

Within the SecurAccess configuration, we will need to configure the ADFS server to communicate and authenticate as an authorised RADIUS client.

- Navigate to RADIUS in the administrator dashboard.
- Ensure the RADIUS Service is enabled in the top right-hand side of the screen and make sure the port number is left as default 1812.
- Enter the IP address of the ADFS server and click "Add"



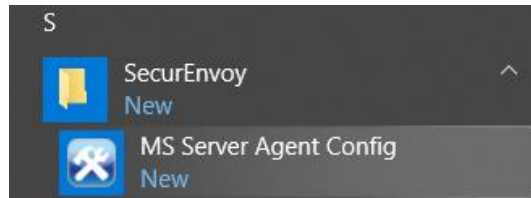
- Enter in a shared secret or common password and select the domains that will be authenticated against (if there is more than one domain configured in SecurAccess)
- Click Update



From the ADFS console, locate and run the SecurEnvoy Server Agent installer which can be found in the latest downloaded SecurEnvoy software folder or ZIP file.

securenvoy.zip\Releasex.x.xxx\Agents\Microsoft Server Agent\setup.exe

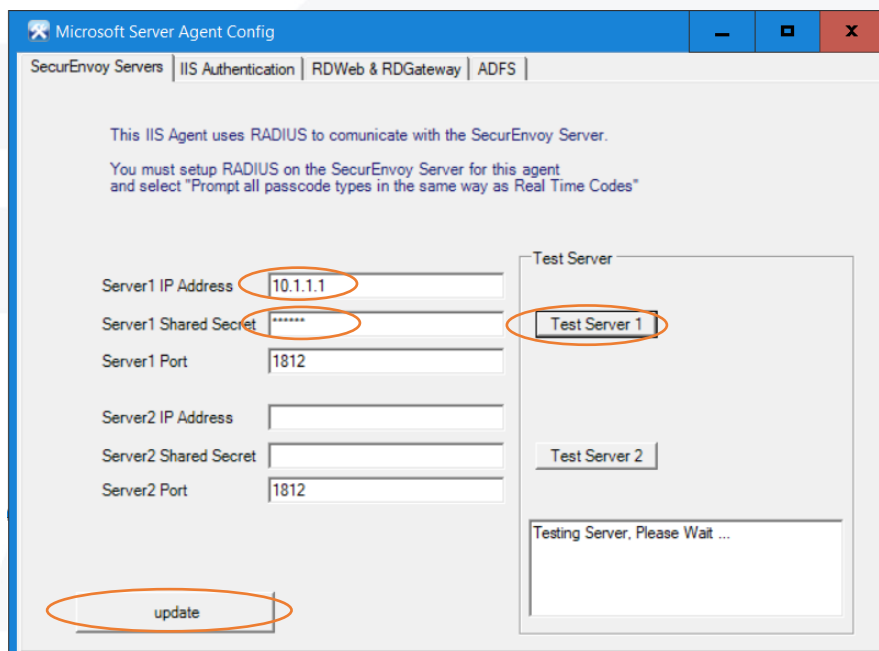
On successful installation of the agent, locate and run the server agent



From the configuration console, we will configure the details of the SecurEnvoy Server that will authenticate O365 domains users.

Enter in the IP address of the SecurEnvoy Server and the Shared Secret, configured in section 1.41 of this document.

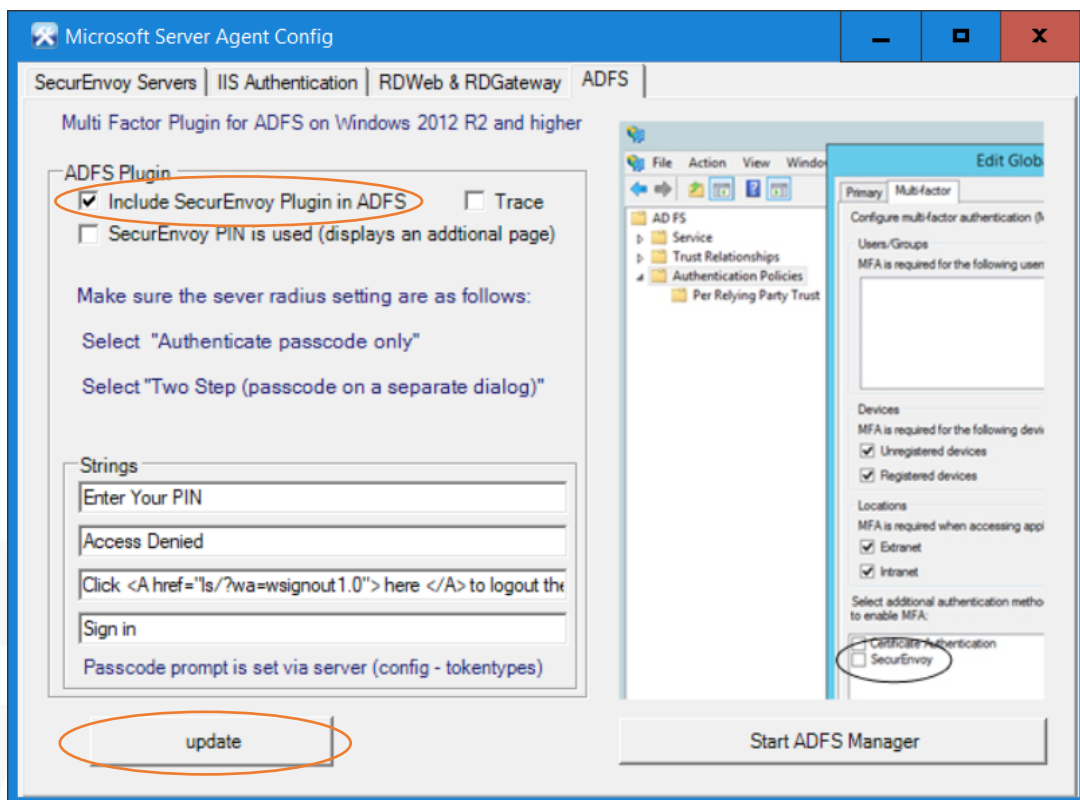
Once details have been entered click on Test Server 1 to confirm that the SecurAccess server is IP reachable and is accepting authentication challenges with the correct shared key.



1.41 Setup RADIUS – ADFS

By selecting the ADFS tab at the top of the Microsoft Server Agent Config, this will allow us to configure ADFS to support the redirection of user authentication to SecurEnvoy MFA.

Tick "Include SecurEnvoy Plugin in ADFS" and click Update at the bottom of the page.

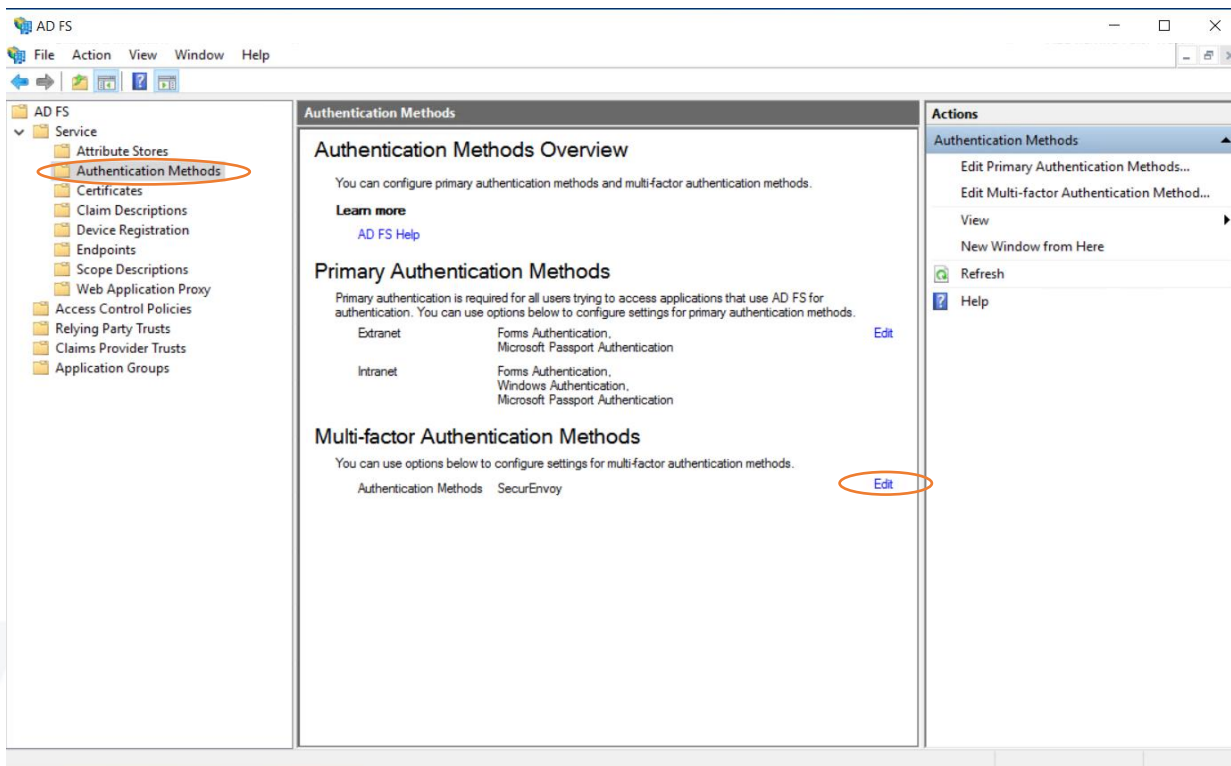


Click on "Start ADFS Manager" to load the ADFS configuration.

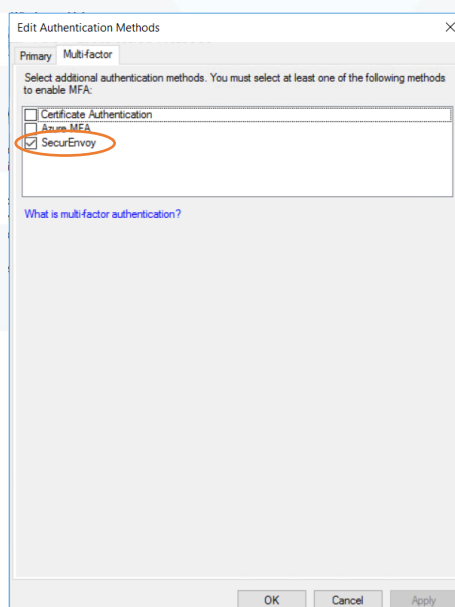
1.42 Configure ADFS – MFA Authentication

On loading of the ADFS configuration manager, we will look to configure ADFS to utilise SecurEnvoy as the Multi-Factor Authentication method.

Select Authentication Methods from the left-hand navigation window and then click on Edit



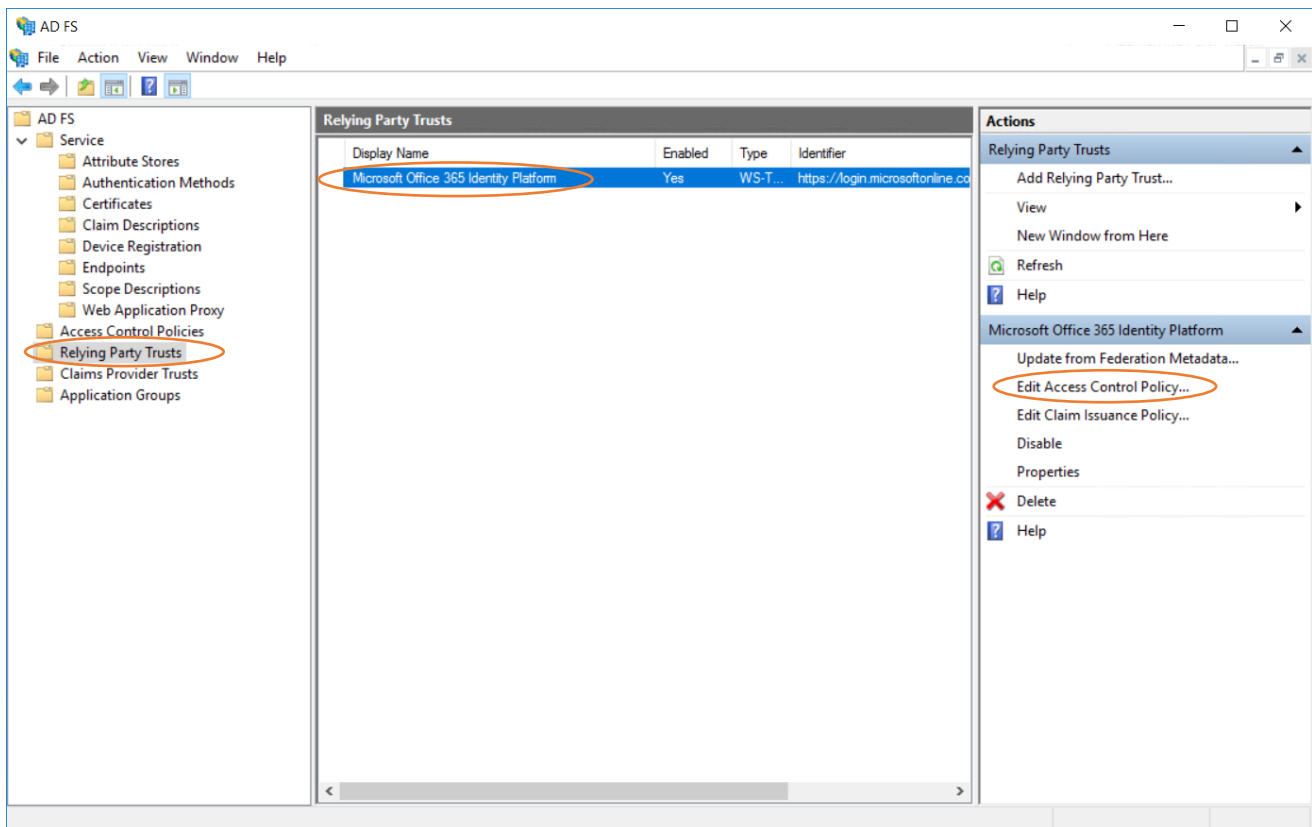
Make sure SecurEnvoy is ticked in the authentication methods and click OK to confirm the changes.



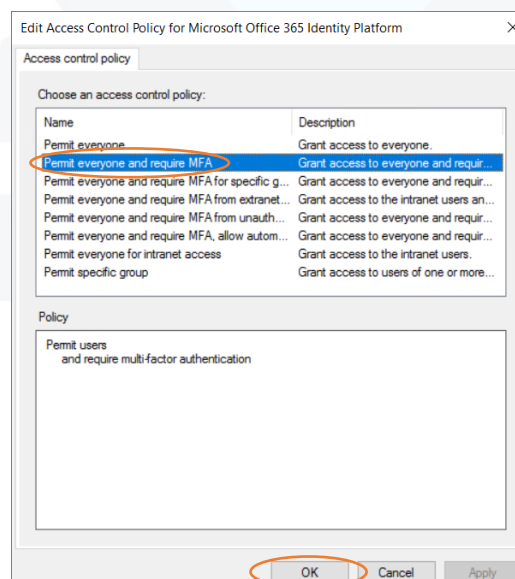
We will then need to update the access control Policy for the Relying Party. In this case its Microsoft Office 365 Identity Platform.

Select Relying Party Trusts from the left-hand Navigation Window and highlight "Microsoft Office 365 Identity Platform"

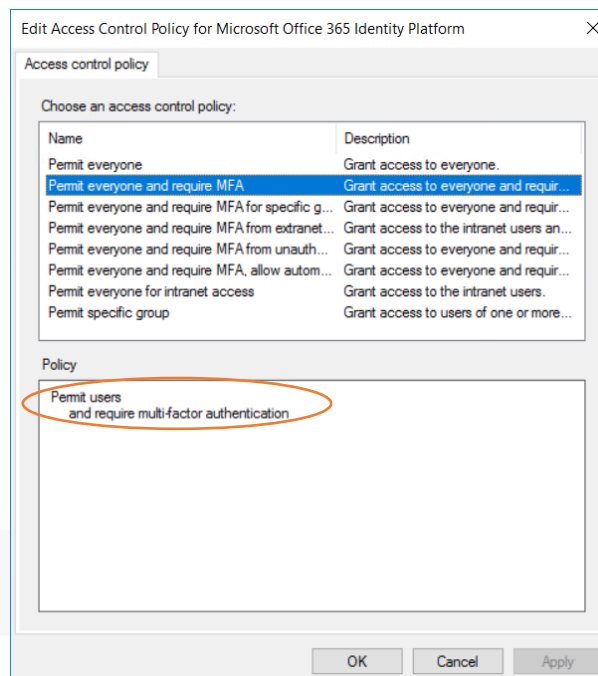
On highlighting the Party Trust, select Edit Access Control Policy from the Actions menu.



On editing the Access Control Policy, the following dialogue will be presented. Select Permit Everyone and require MFA from the list and click OK



It has been identified that in some circumstances it is not possible to update an O365 Relying party to request an MFA authentication from the GUI configuration in ADFS. If this is the case, it is possible to enable this using windows PowerShell.



Looking at our O365 RP in PowerShell (Get-ADFSRelyingPartyTrust), we see no access policies configured. Under the O365 Relying Party it's blank.

```
AdditionalAuthenticationRules :
AccessControlPolicyName      :
AccessControlPolicyParameters :
ResultantPolicy              :
```

Compare this to an RP that does have an access control policy configured:

```
AdditionalAuthenticationRules :
AccessControlPolicyName      : Permit everyone and require MFA from unauthenticated devices
AccessControlPolicyParameters :
ResultantPolicy              : RequireFreshAuthentication:False
                             IssuanceAuthorizationRules:
                             {
                               Permit users
                                 from 'authenticated' device;

                               Permit users
                                 and when authentication includes MFA
                               except
                                 from 'authenticated' device
                             }
```

Since the UI doesn't allow enabling MFA in an access policy for our O365 RP, playing around with PowerShell reveals that it is possible using the Set-ADFSRelyingPartyTrust cmdlet.

```
Set-AdfsRelyingPartyTrust -AccessControlPolicyName 'Permit everyone and require MFA' -
targetIdentifier https://login.microsoftonline.com/extSTS.srf
```

Check the O365 relying party (Get-ADFSRelyingPartyTrust) that an Access Control Policy has been added.

```
Name : Microsoft Office 365 Identity Platform
AutoupdateEnabled : False
MonitoringEnabled : True
MetadataUrl : https://nexus.microsoftonline-p.com/federationmetadata/2007-06/federationmetadata.xml
ConflictWithPublishedPolicy : False
IssuanceAuthorizationRules :
  c:[Type = "http://schemas.microsoft.com/ws/2008/06/identity/claims/windowsaccountname"]
  => issue(store = "Active Directory", types = ("http://schemas.xmlsoap.org/claims/UPN",
  regexreplace(c.Value, "(?<domain>[^\s]+)\\\\(?<user>.+)", "${user}"), param = c.Value);
  c:[Type = "http://schemas.microsoft.com/LiveID/Federation/2008/05/ImmutableID"]
  => issue(Type = "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier",
  "urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified");
  c:[Type = "http://schemas.xmlsoap.org/claims/UPN"]
  => issue(Type = "http://schemas.microsoft.com/ws/2008/06/identity/claims/issuerid", Val
DelegationAuthorizationRules :
LastPublishedPolicyCheckSuccessful : True
LastUpdateTime : 2/15/2016 2:26:56 PM
LastMonitoredTime : 2/17/2016 7:13:09 PM
ImpersonationAuthorizationRules :
AdditionalAuthenticationRules :
AccessControlPolicyName : Permit everyone and require MFA
AccessControlPolicyParameters :
ResultantPolicy :
  RequireFreshAuthentication:False
  IssuanceAuthorizationRules:
  {
    Permit users
    and when authentication includes MFA
  }
```

In the GUI, we then see the applied policy (Permit Everyone and require MFA) appearing.

1.5 Modern Authentication

1.51 Outlook Online, Client Authentication

Modern authentication in Office 365 enables authentication features like multi-factor authentication (MFA) and is based on the Active Directory Authentication Library (ADAL) and OAuth 2.0.

When you enable modern authentication in Exchange Online, it is possible to login to Office 365 mailboxes with Outlook 2016 and Outlook 2013 (version 15.0.4753 or later, with a required registry setting) clients. Other Outlook clients that are available in Office 365 (for example, Outlook Mobile and Outlook for Mac 2016) always use modern authentication as default to log in to Office 365 mailboxes.

You should synchronize the state of modern authentication in Exchange Online with Skype for Business Online to prevent multiple log in prompts in Skype for Business clients.

Connect to Exchange Online PowerShell as shown below

Windows PowerShell needs to be configured to run scripts, and by default, it isn't. Run the following command in an elevated Windows PowerShell window (a Windows PowerShell window you open by selecting Run as administrator):

```
Set-ExecutionPolicy RemoteSigned
```

Once the above has been enabled, it is then possible to connect to Exchange Online by typing the following within an elevated privileged PowerShell window.

```
$UserCredential = Get-Credential
```

Enable modern authentication by typing

```
$Session = New-PSSession -ConfigurationName Microsoft.Exchange -ConnectionUri  
Finish https://outlook.office365.com/powershell-liveid/ -Credential $UserCredential  
-Authentication Basic -AllowRedirection
```

```
Set-OrganizationConfig -OAuth2ClientProfileEnabled $true
```

Note:

For Office 365 Germany, use the ConnectionUri value: <https://outlook.office.de/powershell-liveid/> as a replacement.

- Finish by typing the following commands into the PowerShell Window

```
Import-PSSession $Session -DisableNameChecking  
Remove-PSSession $Session
```

1.52 Skype For Business Online, Client Authentication

If using windows 2012 or earlier, it will be required to install Skype for Business Online, Windows PowerShell Module:

This is not required if connecting from a Windows 2016 server.

<https://www.microsoft.com/en-us/download/details.aspx?id=39366>

- Connect to Skype for Business using PowerShell replacing with your user/domain name,

```
$sfboSession = New-CsOnlineSession -UserName user@domain.com
Import-PSSession $sfboSession
```

```
PS C:\WINDOWS\system32> $sfboSession = New-CsOnlineSession -UserName mail@ronnipedersen.com

PS C:\WINDOWS\system32> Import-PSSession $sfboSession
```

ModuleType	Version	Name	ExportedCommands
Script	1.0	tmp_jpc4wzs.j.tvq	{Clear-CsOnlineTelephoneNumberReservation, Complete-C

- Verify the current settings (optional)

```
Get-CsOauthConfiguration
```

```
PS C:\WINDOWS\system32> Get-CsOauthConfiguration
```

```
Identity : Global
PartnerApplications : {Name=microsoft.exchange;ApplicationIdentifier=00000002-0000-0ff1-4
osoft.sharepoint;ApplicationIdentifier=00000003-0000-0ff1-ce00-0000
ype.platformmonitoringservice;ApplicationIdentifier=44ff763b-5d1f-4
=microsoft.skype;ApplicationIdentifier=00000004-0000-0ff1-ce00-0000
OAuthServers : {Name=microsoft.sts;IssuerIdentifier=00000001-0000-0000-c000-000000
Acs;AcceptSecurityIdentifierInformation=False, Name=evosts;IssuerId
tadata.xml;AuthorizationUriOverride=;Type=AzureAd;AcceptSecurityId
Realm :
ServiceName : 00000004-0000-0ff1-ce00-000000000000
ClientAuthorizationOAuthServerIdentity : evosts
ExchangeAutodiscoverUrl : https://pilot.outlook.com/autodiscover/autodiscover.svc
ExchangeAutodiscoverAllowedDomains : *.outlook.com;*.microsoft.com
ClientAdalAuthOverride : Disallowed
AlternateAudienceUrl :
AdditionalAudienceUrls :
```

- Enable modern authentication for Skype for Business Online

```
Set-CsOAuthConfiguration -ClientAdalAuthOverride Allowed
```

- Verify that the change was successful by running the following:

```
Get-CsOAuthConfiguration
```

```
PS C:\WINDOWS\system32> Get-CsOAuthConfiguration

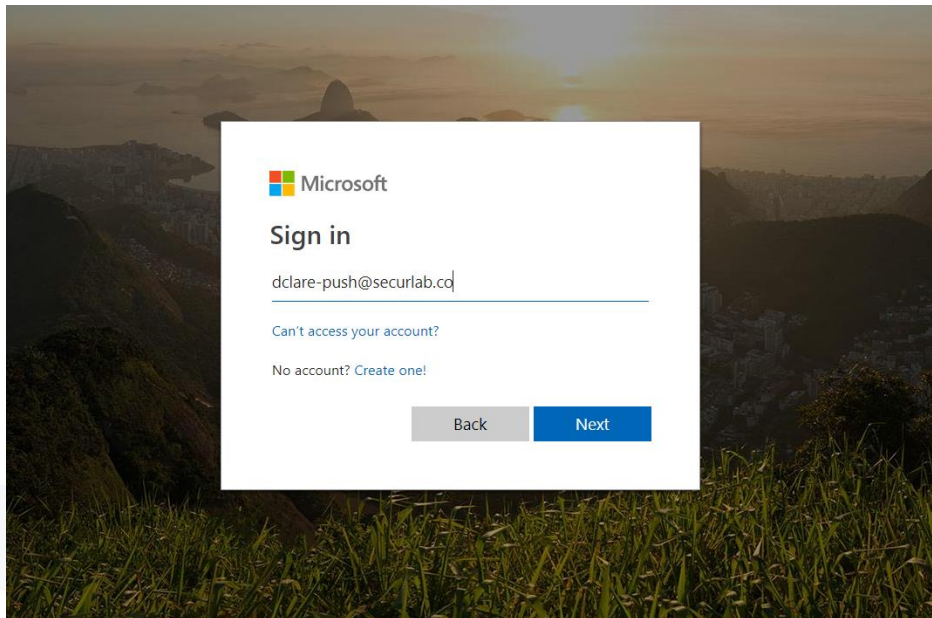
Identity                : Global
PartnerApplications     : {Name=microsoft.exchange;ApplicationIdentifier=00000002-0000-0f
OAuthServers            : {Name=microsoft.sts;IssuerIdentifier=00000001-0000-0000-c000-00
Realm                   : 
ServiceName              : 00000004-0000-0ff1-ce00-000000000000
ClientAuthorizationOAuthServerIdentity : evosts
ExchangeAutodiscoverUrl  : https://pilot.outlook.com/autodiscover/autodiscover.svc
ExchangeAutodiscoverAllowedDomains : *.outlook.com;*.microsoft.com
ClientAdalAuthOverride   : Allowed
AlternateAudienceUrl    : 
AdditionalAudienceUrls  :
```

Important: Please note, that it might take up to 24 hours before modern authentication starts to work.

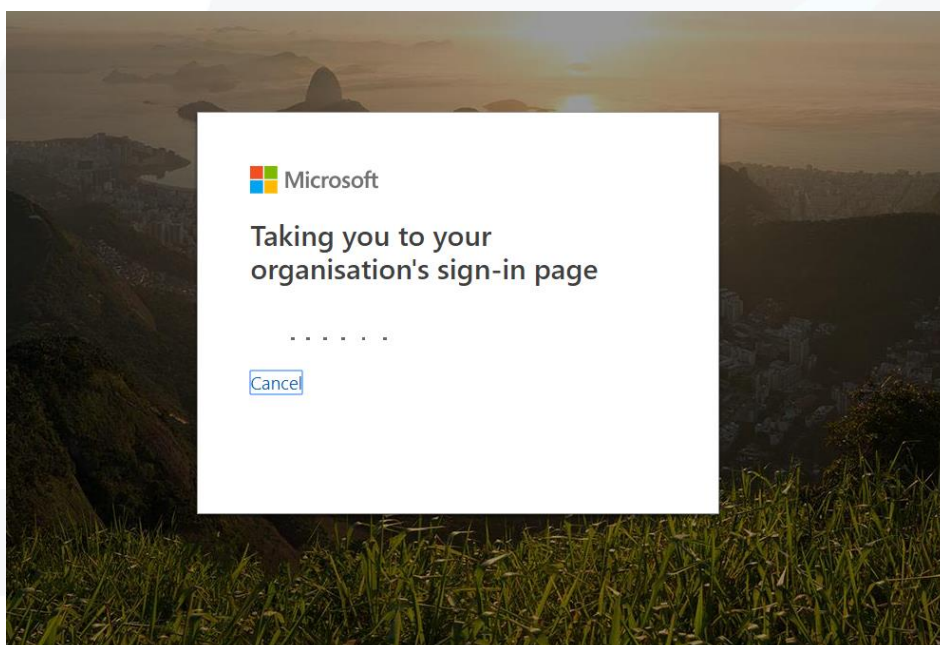
1.6 Client Logon – O365 Web

The following section describes the login process and demonstrates what will be presented back to the user.

- Browse to your Office 365 Login Page



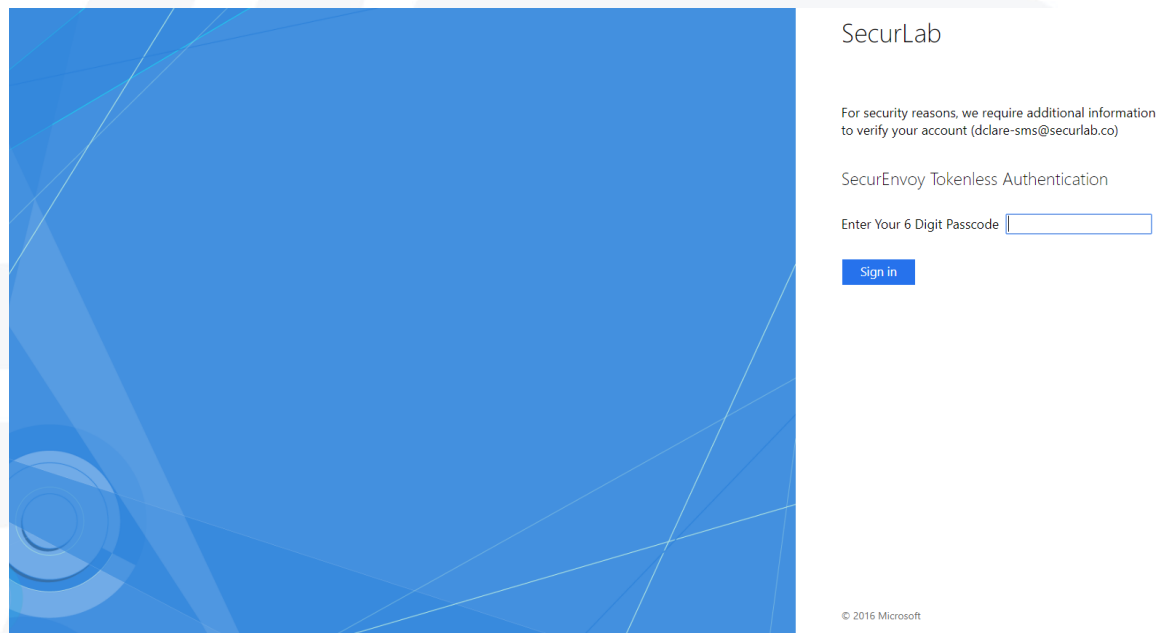
- Enter in your username from Active Directory or Local Directory Service account and the login will be redirected to your ADFS page via the Web Application Proxy



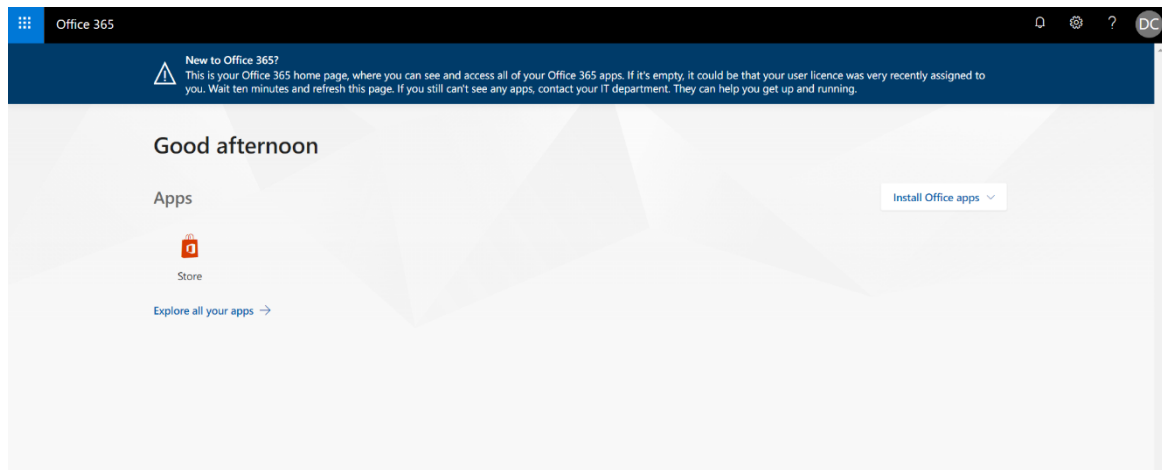
- On redirection to the ADFS web page, Enter domain username and password



- At which point you will be asked to enter the 6-digit token received via SMS or soft token, or you will receive a Push notification to the phone if PUSH has been enabled.



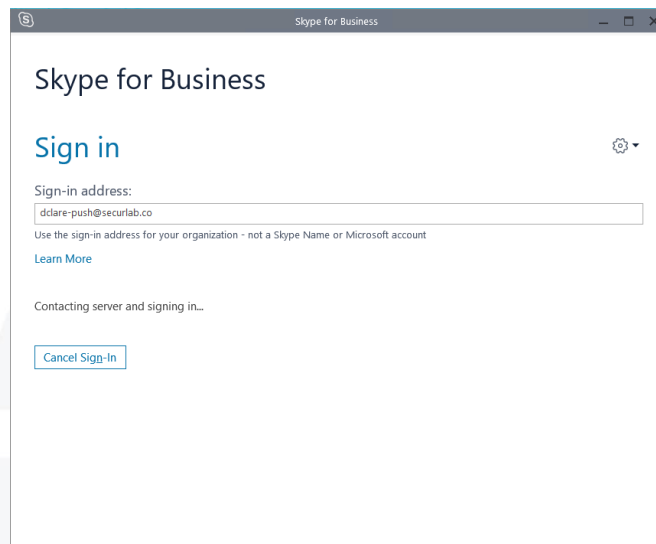
- On successful login you will be presented with your O365 Applications



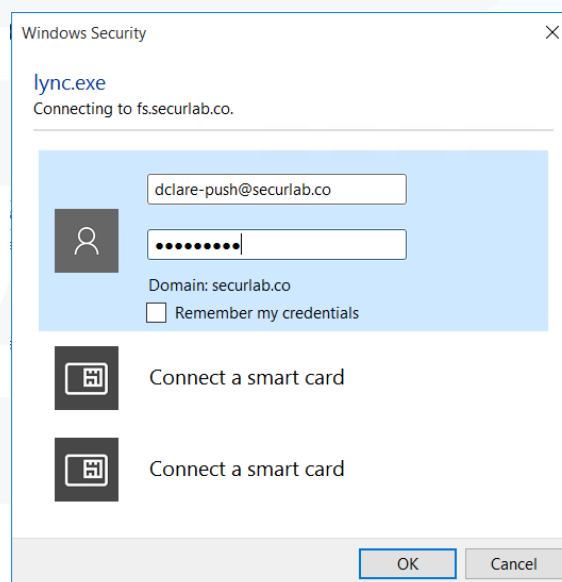
1.7 Client Logon – O365 Modern Authentication

The following section describes the login process and demonstrates what will be presented back to the user when using the desktop app and authentication with Modern Authentication.

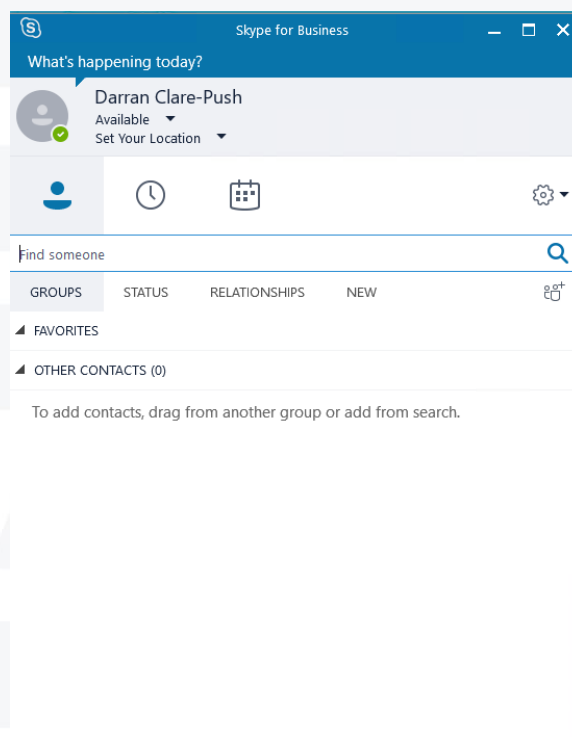
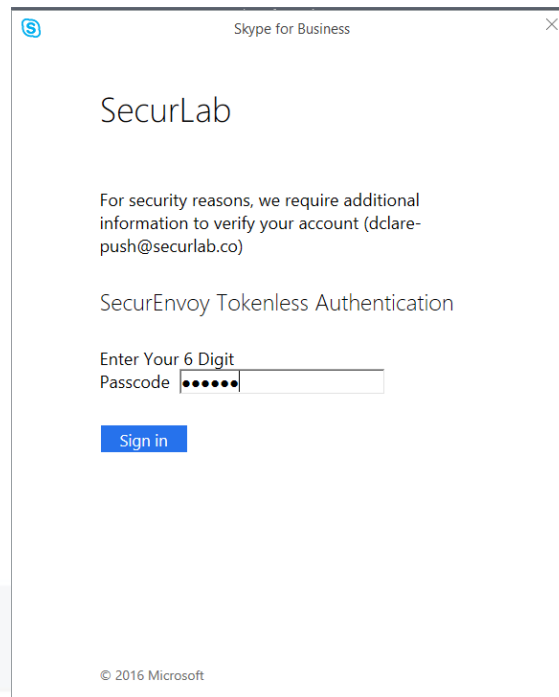
- Load Outlook, Skype for Business or OneDrive Client and at the prompt type in the users O365 sign-in address.



On successful connection to O365 online, a redirect to the domain ADFS server will occur and presenting the user with the opportunity to enter the fully qualified domain username and domain password.



Dependent on the token type used, the user will either receive a PUSH notification to the mobile app or will be presented with the opportunity to enter the 6-digit SMS or Mobile soft token.



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